

## Attenuators



Optronics single mode attenuators are used in communication systems to reduce optical power launched onto the photo detector. These high performance devices are designed to give accurate attenuation over a wide range of wavelengths. The plug type configuration allows you to use directly on the ends of the fibre jumpers and to insert directly into the adapter.

Available in FC, SC, LC and MU connector styles with PC or APC finish providing ultra low return loss. Optronics attenuators come to you from a world class manufacturing facility backed by 20 years of experience in manufacturing fibre optic passive and active devices. Products coming out of this facility have found worldwide applications in computer networking, telecommunications and cable TV.

### Features

- Plug-in type package.
- Accurate attenuation.
- Ultra low back reflection.
- Broad wavelength band.
- Available with SC, FC, LC and MU packages.
- Flat response over all wavelengths.
- Environmentally Stable.
- Quick Delivery

### Applications

- Telecommunication networks
- Fibre optic sensors
- Test and measurement
- CATV
- LAN and WAN
- FTTx

### Specifications

#### Description

The Optronics optical attenuators are manufactured using the best quality components.

For full information on the full range FibreFab products, please contact the address below for a data sheet.

#### Dimensions

FC — 10mm (diameter) x 30mm (L)  
SC — 35mm (L) x 12.7mm (W) x 9.5mm (D)

#### Intermateability

Optically and mechanically compatible with all equivalent connectors.  
Compliant with IEC 874-14.

#### Product Packaging

Each attenuator is packaged individually.

#### Temperature Cycling

(IEC 874-1 sec. 4.5.22)  
-40 to +75°C, 40 cycles  
=0.2dB Change

#### High Temperature:

(IEC 874-1 sec. 4.5.18)  
75°C for 96 hours  
=0.2dB Change

#### Damp Heat:

(IEC 874-1 sec. 4.5.19)  
60°C at 95% RH, 96 hours  
=0.2dB Change

#### Vibration (Mated Pair):

(IEC 874-1 sec. 4.5.1)  
10-55 Hz, 1.5mm P to P  
=0.3dB Change

#### Mating Durability:

(IEC 874-1 sec. 4.5.32)  
1000 mating cycles  
Clean every 25  
< 0.2 dB Change

#### Operating Temperature

-40°C to +85°C

#### Connector type

SC / FC / LC / MU

#### Available Range of attenuation

1 to 30 dB with 1dB increments  
(or custom attenuation within this range)

#### Operating Wavelength

1310nm and 1550nm (Or single wavelength)

#### Operating Band pass

Digital Band (BellcoreSpec.)	1260-1360nm and 1430-1580nm
S + C + L Band	1480-1610nm
Special Bandpass	1310±25nm and 1470-1610nm
Single Window	1280-1340nm or 1510-1590nm
Dual Window	1310 and 1550nm (±25nm)

#### Attenuation Tolerance

Attenuators ≤ 5dB	± 0.5 dB
Attenuators, 6 to 30 dB	± 10% of attenuation

#### Reflectance

SPC ≤ 50 dB  
UPC ≤ 55 dB  
APC ≤ 60 dB

#### International Standard

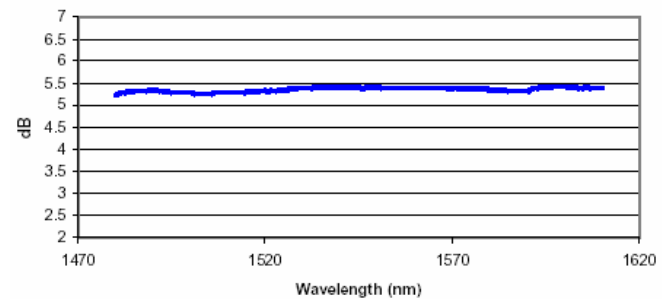
Telcordia GR-910-CORE

#### Ordering Information

FA	—	□	—	□	—	□
		SC		S= Singlemode		05= 5dB
		SC/APC		M= Multimode		10= 10dB
		FC				15= 15dB
		FC/APC				20= 20dB
		LC				25= 25dB
		MU				

Other versions available to special order

Attenuation Spectrum, 5dB Attenuator



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